



Dept of Metallurgical Engineering & Material Science, Center of Excellence in Oil, Gas & Energy (CoE-OGE), & DRDO Industry Academia Center of excellence (DIA-CoE)



**IIT-Bombay**

&

**India Energy Network**

*Symposium on*

*Impact of Corrosion on Asset Integrity*

*Date: 7-8 October 2024,*

**PROGRAM (Tentative)**

**7<sup>th</sup> October 2024**

- 8.30 Registration, coffee, networking  
9.30 Welcome of Dignitaries to Dias and start of Program  
Announcements Prof S Parida, IITB, convener symposium,  
Welcome and Introductions
- Prof. N.N. Viswanthan, HoD MEMS, IITB
  - Prof Yogendra Shastri, Professor-in-Charge, CoE Oil, Gas and Energy, IITB
  - Dr V Venkateshwara Rao, Director, DIA-CoE DRDO, IITB
  - Mr Umesh Chandra, Director, India Energy Network
  - Context Setting Dr S Shamasundar, MD, ProSIM; India Energy Network
  - **Inaugural Address:** Dr U Kamachi Mudali, VC, Homi Bhabha National Institute, Dept of Atomic Energy; Chairman, Corrosion Management Committee, CII
  - Vote of Thanks

**10.45 Tea**

- 11.15 **Keynote Lecture:**  
Mr Prashant Rojekar, Director NMRL, DRDO  
*War Against Corrosion*  
Dr Kannan, ED, R&D, IOCL  
*Structural Integrity of Refineries - An R&D perspective*  
A K Das, GM, NETRA- NTPC  
*Corrosion Issues, Advances in their Detection and Management for Power Plants*  
Prof Gopala Krishnan, IISc  
*Advanced modelling tools to understand pitting corrosion in metal*

**1.15 LUNCH**

- 2.15 Prof Mohamed Sulman, IIT Bombay Corrosion of Reinforced Concrete Structures  
*Corrosion of Reinforced Concrete Structures.*  
Dr Renu Gupta, Head, Welding Technology, L&T HED,  
*Construction of Clad Pressure Vessels and its Corrosion Aspects in Hydro processing Applications*

Ms Rachel Jacob, Suprabha

*Corrosion prevention and mitigative measures in various industries*  
Dr Vijay Chaudhry, NPCIL  
*Assessment and Mitigation of Stress Corrosion cracking in Piping of Nuclear Power Plants*

**4.00 TEA**

4.30 Shivakumar H, ProSIM  
*FFS Level-3 and RLA/RLE of refinery systems*  
Samir Patkar, Practice Head, Image Grafix,  
*How Integrity Management System is instrumental in managing Asset Integrity*  
Dr Ramgopal Thodla, DNV R&D USA  
*Current Progress and Future Perspectives on Materials of Construction for High-Pressure Hydrogen*

6.00 Open house discussions

**6.30 High Tea**

**8<sup>th</sup> October 2024**

9.30 Dr Subrata Rakshit, DGTM – DRDO,  
*Remarks about DRDO activities in multi-disciplinary research*  
Dr Narasi Sridhar, CEO, MC Consult, Former Head of R&D, DNV,  
*Materials Selection for Long-term Performance in Energy Applications*  
Dr Manoj Gonuguntla, Shell,  
*Leveraging data to enhance asset integrity in process industry*  
Dr Suprathik Roychowdhury, Head, Corrosion Engineering Section, BARC,  
*Corrosion of nuclear structural materials and its mitigation*  
Prof Chandan Srivastava, IISc,  
*Microstructural Engineering of Electrodeposited Metallic Coatings for Enhanced Resistance to Corrosion and Hydrogen Permeation.*

**11.00 TEA**

11.45 Prof Krishnan, IIT Madras, President ISNT,  
*Novel NDT Techniques for Corrosion and Weld Inspection in Process Industries.*  
Pravin Kumar, MD, MRPL  
*Challenges in inspection of aged refineries*  
Mr Babu Sathian, MD, Cathodic Protection Pvt Ltd  
*Corrosion Control in process industries*

**1.15 LUNCH**

2.0 Shrikant Naik, GM, Technology, Asian Paints  
*Structural Integrity – A Coatings Perspective and Solutions*  
Dr Sunil Kumar Thammida, IIT Tirupathi  
*Characterization of coating effect on steel corrosion rate and pinhole defects via polarization, EIS and simulations studies.*  
Mahindra Singh, IOCL, **TBC**  
Dr. A.K. Bhardwaj, Group General Manager, ONGC  
*Oil and Gas Pipeline Structural Integrity Management: **Internal Corrosion Issues***

**3.30 TEA**

4.00 Open house discussion – Corrosion Problems - Solutions to corrosion problems implemented at various industries

**Wrap Up**